

Claims

[c1] What is claimed is:

1. A system for repairing dents in automotive bumpers, comprised of:
a support frame;
a mounting surface;
a positioning mechanism on said mounting surface for supporting a bumper;
a top rail mounted on said support frame;
a press suspended from said support frame on said top rail;
a tool head attachable to said press for holding at least one tool for pressing dents out of a bumper;
whereby a bumper may be positioned on said mounting surface below said press so said tool head presses a deformation smooth on said bumper.

[c2] 2. The system of claim 1 wherein said system includes:
a hydraulic power supply to operate said press.

[c3] 3. The system of claim 1 wherein said system includes:
a pneumatic supply to operate said press.

[c4] 4. The system of claim 1 wherein said system includes:

a pivotable mechanism for supporting said top rail for pivoting movement relative to said support frame.

[c5] 5. The system of claim 1 wherein said system includes: a plurality of holes formed in said mounting surface; and said positioning mechanism utilizes said plurality of holes for controlling the position of a bumper.

[c6] 6. The system of claim 1 wherein said system further includes:
a mounting mechanism for allowing said press to move relative to said support frame.

[c7] 7. The system of claim 1 wherein said system further includes:
a mounting mechanism for mounting said press on said top rail and allowing said press to adjustably move relative to said top rail.

[c8] 8. The system of claim 1 wherein said system includes:
a mounting mechanism for mounting said system in the bed of a truck.

[c9] 9. The system of claim 1 wherein said support frame includes a bottom rail upon which said mounting table may be removably positioned thereon.

[c10] 10. The system of claim 9 wherein said bottom rail fur-

ther comprises at least one balancing element substantially perpendicular to said bottom rail.

[c11] 11. The system of claim 1 wherein said system includes:
a plurality of said tool heads; and
each of said tool heads having a differing configuration to press deformations in a bumper depending on the size, location and style of bumper.

[c12] 12. A method for repairing deformations to bumpers comprised of:
placing a deformed bumper on a mounting surface;
positioning said mounting surface below a support frame;
suspending a hydraulic press from said support frame;
positioning said hydraulic press directly above a dent located on said bumper;
attaching a tool suitable for pressing out a dent in a metallic surface to the distal end of said hydraulic press;
actuating said hydraulic press and thereby applying force against the dented area of said bumper, and;
repeating said actuation until said bumper is restored to its original shape.

[c13] 13. The method of claim 12 wherein said suspending a hydraulic press includes:
placing said hydraulic press within a continuous channel

on said support frame; and
affixing the edges of a plate located on a top portion of
said hydraulic press against a top portion of said support
frame.

[c14] 14. The method of claim 12 further comprising repeating
said actuating said hydraulic press on the opposite side
as the one selected in placing a deformed bumper on a
mounting surface.

[c15] 15. The method of claim 12 wherein attaching a tool may
be selected from a plurality of available tools attachable
to a tool head on the distal end of said hydraulic press.

[c16] 16. The method of claim 12 wherein said hydraulic press
is pivotable relative to said support frame.

[c17] 17. The method of claim 12 wherein said method further
includes:
placing leveling blocks relative to the bumper to place
the bumper in the proper position relative to said tool
head.